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<u>L19</u>	L18 not 112	9	<u>L19</u>
<u>L18</u>	11 and L16	11	<u>L18</u>
<u>L17</u>	11 and 110 and L16	0	<u>L17</u>
<u>L16</u>	teletype or tele-type	2091	<u>L16</u>
<u>L15</u>	'6205339'.pn.	1	<u>L15</u>
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<u>L13</u>	'5974116'.pn.	1	<u>L13</u>
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<u>L12</u>	11 and 17	5	<u>L12</u>
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<u>L10</u>	media (gateway or gate-way) and server	3002	<u>L10</u>
<u>L9</u>	L8 not 15	0	<u>L9</u>
<u>L8</u>	13 and L7	2	<u>L8</u>
<u>L7</u>	(tty or tty/tdd) with format	95	<u>L7</u>
<u>L6</u>	deaf format	2	<u>L6</u>
<u>L5</u>	13 and L4	3	<u>L5</u>

<u>L4</u>	l2 with format	35	<u>L4</u>
<u>L3</u>	l1 and L2	89	<u>L3</u>
<u>L2</u>	cellular telephone modem or ctm	13085	<u>L2</u>
<u>L1</u>	mobile switch\$3 center or msc	26766	<u>L1</u>

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" INTERFERENCE "

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Terms	Documents
(msc same allow monitoring same ctm device) and (media gateway same receive with call) and (msc server same recognize same call content same ctm format) and (converter same tty/tdd format)	1

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(msc same allow monitoring same ctm device) and (media gateway same
 L1 receive with call) and (msc server same recognize same call content same ctm
 format) and (converter same tty/tdd format)

1 L1

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L1: Entry 1 of 1

File: PGPB

Dec 30, 2004

DOCUMENT-IDENTIFIER: US 20040266410 A1

TITLE: Method and apparatus for legal intercept monitoring of a cellular telephone modem (CTM) device

Summary of Invention Paragraph:

[0008] Referring now to FIG. 3, the bearer path for a CTM, non-monitored call is illustrated within an exemplary network 100. More particularly, the network 100 includes a mobile switching center (MSC) 102 having an MCS server 104 and a packet backbone network 106. The mobile switching center (MSC) 102 also includes a media gateway 108 which communicates with a radio access network (RAN) 110 and a public switched telephone network (PSTN) 112. Notably, the MSC 102 also includes a converter 120 which converts call content in CTM format to call content in TTY/TDD format in manners that are well known to those in the field. It should be understood that, like the CCDU 70 of FIG. 2, the converter 120 may reside in a location remote from the MSC 102. In such a case, communication paths are preferably established between the MSC 102 and the converter 120 so that appropriate conversion functions may be carried out by the converter. In operation, for example, for a call originating in the radio access network 110 that is in CTM format, call content is received by the media gateway 108 on bearer path portion A and delivered to the converter 120 on bearer path portion B. The format of the call content on portions A and B is in CTM format. Of course, the converter 120 converts the CTM formatted call content to TTY/TDD format and delivers the call content on bearer path portion C back to the media gateway 108. The media gateway 108 then delivers the call content to a destination network such as PSTN 112, via bearer path portion F. Calls originating with the PSTN 112 and terminating with the RAN 110 can be likewise processed.

Summary of Invention Paragraph:

[0013] In one aspect of the invention, the method monitors a call, that originates from a cellular telephone modem (CTM) device and terminates in a destination network, in a system including a converter operative to convert call content from a CTM format to a Teletype for Telephone Devices for the Deaf (TTY/TDD) format and a Call Content Delivery Unit (CCDU). The method comprises receiving a call in a media gateway of a mobile switching center (MSC), recognizing the call as having call content in CTM format by the MSC, recognizing the call as being a monitored call by the MSC, instructing the media gateway by the MSC to establish a first bearer path to the converter, establishing the first bearer path, instructing the media gateway by the MSC to establish a second bearer path from the converter to the CCDU, establishing the second bearer path; instructing the media gateway by the MSC to establish a third bearer path from the CCDU to the destination network, establishing the third bearer path, delivering the call content in CTM format to the converter on the first bearer path, converting the call content in CTM format to call content in TTY/TDD format by the converter, delivering the call content in TTY/TDD format to the CCDU via the second